GOFMAN, G.Ye., prof.; LYZIKOV, N.F., kand.med.nauk.

Work of the women's clinic. Zdrav. Belor. 4 no.2:52-55 F '58.
(MIRA 13:8)

1. Iz akushersko-ginekologicheskoy kliniki Vitebekogo meditsinskogo instituta.
(VITEBSK—HOSPITALS, GYNECOLOGIC AND OBSTETRIC)

LYZIKOV, N.F., dotsent

Causes and prevention of stillbirth. Zdrav. Bel. 9 no.1: 66-68 J'63. (MILA 16:8)

l. Iz kafedry akusherstva i ginekologii (ispolnyayushchiy obyazannosti zaveduyushchego - dotsent N.r.Lyzikov) Vitebskogo meditsinskogo instituta.
(STILLBIATH)

LYZIKOV, N. F.

Lyzikov, N. F.

"The use of sintomycin emulsion to prevent ophthalmoblennorrhes or newborn children." Minsk State Medical Inst. Minsk, 1956. (Disservation for the Degree of Candidate in Medical Sciences).

Knizhnaya letopis' No. 21, 1956. Moscow.

GOFMAN, G.Ye.; LYZIKOV, N.F., kand.med.nauk

Observation on the use of synthomycin emulsion for the prevention of ophthalmia neotatorum. Zdrav. Belor. 5 no.10:38-40 0 '59.

1. Iz kafedry akusherstva i ginekologii (zaveduyushchiy kafedroy - g.Ye. Gofman) Vitebekogo meditsinskogo instituta.

(CHLOROMYCETIN) (CONJUNCTIVITIS, INFANTILE)

LYZIKOV, N.F., kand.med.nauk; ZHOLNEROVSKIY, M.G.

Significance of toxoplasmosis in the pathology of the fetus.
Zdrav.Belor. 5 no.1:26-29 Ja *60. (MIRA 13:5)

1. Iz kafedry akusherstva i ginekologii (zavednyushchiy - professor G.Ye. Gofman) Vitebekogo meditsinskogo instituta.

(TOXOPLASMOSIS) (FETUS--DISEASES)

LYZIKOV, N.F., dotsent; ROSHCHINA, T. Ya., klinicheskiy ordinator; GORODETSKAYA, L.V.; SMETANINA, T.P.

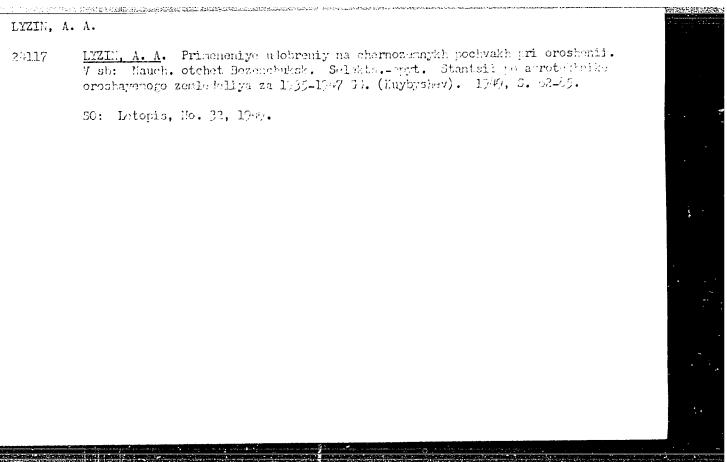
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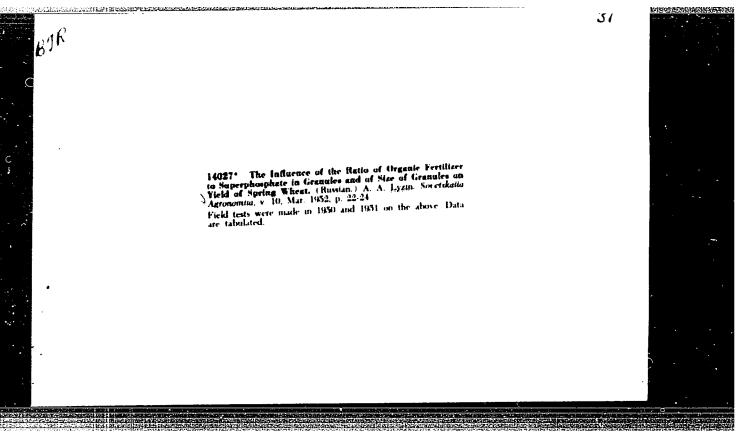
Prevention of premature labor. Zdrav. Bel. 9 no.7:12-15 J1:63

1. Iz kafedry akusherstva i ginekologii (zav. - dotsent N.F. Lyzikov) Vitebskogo meditsinskogo instituta (rektor - prof. G.A. Medvedeva).

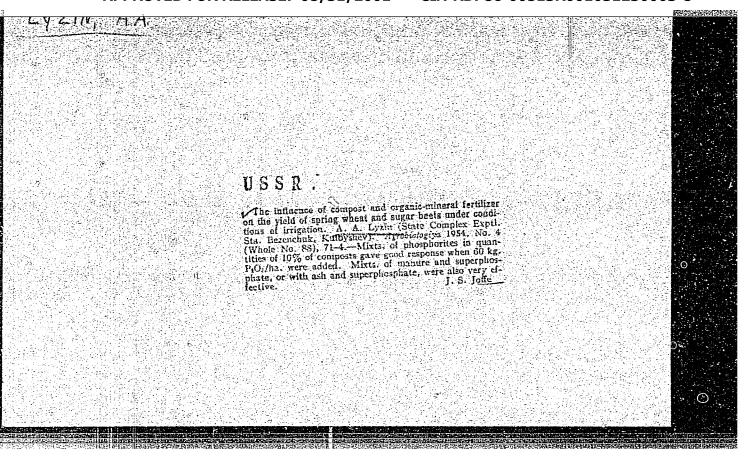
SOLENDERG, A.D., YEWITIFFYEVA, M.I., DLAZINCIA, YE.I., LYBYKO P. --..a., OSTEYAKOVA, A.D.

Our experience in microwave trorapy. fill ver. lech. fiz. kult. 3c m.liu5-20 de-c tes. Mica e c lech. fiz. kult. 3c m.liu5-20 de-c tes. Mica e c l. Balmeofiziaterapevithmeax ye otherwises in thirty lech. V.I. Lenina (glavnyy vrach K.A. Chel technology), lemingrati.





LYZIN, A. A.	
Fertilizers and Manures	2.
Effect of granulated sulerys (ate indicreanismineral granules on winter of the little irrigation. Scv. agron. 11 Mc. 3, 1953.	
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9. Monthly List of Russian Accessions, Library of Congress, June 1953, Unclassified.	



L 1658-66 EWT(1)/EWP(m)/EWA(d)/FCS(k)/EWA(1)

ACCESSION NR: AP5021527

UR/0258/65/005/004/0641/0649 533.697.3

AUTHOR: Lyzhin, O. V. (Moscow)

29

TITLE: Throttling devices in a compressible gas stream

SOURCE: Inzhenernyy zhurnal, v. 5, no. 4, 1965, 641-649

TOPIC TAGS: gas flow, compressible flow, throttling valve, pressure loss coefficient

ARSTRACT: An approach for calculating the pressure loss coefficient

 $\zeta = \frac{p_{01} - p_{02}}{\frac{1}{2} p_1 W_1^2}$

or the total pressure ratio

 $v = \frac{p_{01}}{p_{01}}$

of a throttling device in a compressible gas stream is presented. After reasoning that v is independent of Re, Pr, and x (adiabatic index), the relation

 $v = v(\overline{S}, M)$ or $v = v(\overline{S}, \lambda)$

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APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001031230003-8"

L 1658-66

ACCESSION NR: AP5021527

is obtained (where $\overline{S} = S/S_{max}$ is the relative throttle position, $\lambda = W/a_{*}$, $a_{*} =$ critical flow velocity). For a given throttle, the characteristics can be plotted conveniently as v = f(S) for different values of λ_2 (at discharge end). The application of these curves is demonstrated by determining how a throttle with a given characteristic has to be actuated to provide constant downstream pressure for a decreasing upstream pressure (as from an accumulator), and, conversely, the necessary throttle characteristics are evaluated for a constant downstream pressure if the throttle actuator provides linear motion. A particular throttle geometry with an internal sleeve restriction (see Fig. 1 on the Enclosure) is described as having several advantages over other throttling devices, and its characteristics (experimental and analytical) are presented (see Fig. 2 on the Enclosure). The derivation of the characteristic equations is based on the flow pattern shown in Figure 1 which is considered correct since the agreement with experimental results is excellent. Orig. art. has: 8 figures and 23 formulas. SUBMITTED: 15Aug64

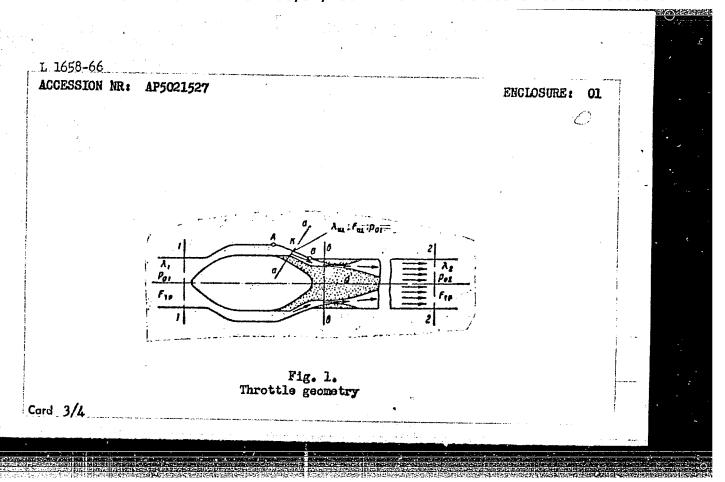
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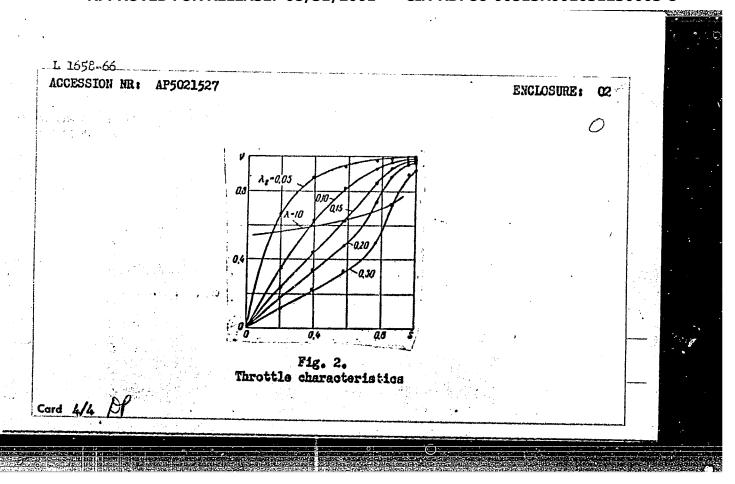
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APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001031230003-8"



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SOV/2844 PHASE I BOOK EXPLOITATION

28(1)

Gal'perin, V.G., and O. V. Lyzhin

Gazodinamicheskiy raschet aerodinamicheskikh trub bol'shikh skorostey (Aerodynamic Analysis of High-speed Wind Tunnels) / Moscow Izd-vo byuro novoy tekhniki, 1948, 22 p. (Series: Tsentral'nyy aero-gidrodinamicheskiy institut. Tekhnicheskiye otchety) No. of copies printed not given.

Sponsoring Agency: Ministerstvo aviatsionnoy promyshlennosti SSSR.

Ed.: B. A. Ushakov.

PURPOSE: This book is intended for scientists and engineers concerned with gas dynamics and the design of high-speed wind tunnels.

COVERAGE: The book describes a method for aerodynamic analysis of wind tunnels of high subsonic and supersonic speeds based on the equations of one-dimensional gas flow, expressed through the stagmation parameters. The book presents the calculation of the variation of speed, pressure, and other flow parameters in various Card 1/3

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001031230003-8"

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Aer	odynamic Analysis (Cont.)	SOV/2844	
	sections of the wind tunnel as a functi test section. The use of an ejector pu flow velocity in a supersonic wind tunn is given for the analysis of various types duration operation (blow-down wind tun are mentioned. There are 10 references	mel is discussed. A method sof wind tunnels for short-mels). No personalities	
ጥልፑ	BLE OF CONTENTS: None given Zbook is di	vided as follows:	
	Basic Equations	3	
	Test Section	5	
3.	Diffuser	8	
	Return Passage and Air Cooler	10	
4. 5.	Compressor	11	
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· Aerodynamic Analysis (Cont.)	SOV/2844	,
6. Use of an Ejector Pump for Regulating the Supersonic Wind Tunnel		
7. Calculation of a Blow-down Wind Tunnel	16	
AVAILABLE: Library of Congress	IS/ec 11-16-59	
Card 3/3		

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001031230003-8"

URVANTSOV, Lev Alekseyevich, kand. tekhn. nauk; TIMOFEYEV, Ye.I., kand. tekhn. nauk, retsenzent; IZZHIN, O.V., inzh., red.; EYSTRITSKAYA, V.V., red. izd-va; ELVKIND, V.D., tekhn. red.

[Gas erosion of metals; general information, methods of study and protection] Gazovaia eroziia metallov; obshchie svedeniia metody izucheniia i zashchity. Moskva, Mashgiz, 1962.

(MIRA 15:4)

(Erosion of metals)

YARKOVSKIY, Eduard[Jarkovsky, Eduard]; ZHUKOV, A.A., inzh.[translator];
LYZHIN, O.V., inzh., red.; MAKAROVA, L.A., tekhn. red.;
SMIRNOVA, G.V., tekhn. red.

[Feendamentals of practical calculations of diaphragms,
metering nozzles, and Venturi tubes]Osnovy prakticheskikh
reschetov diafragm, mernykh sopel i trub venturi. Izd.2.,
perer. i dop. Pod red. O.V.Lyzhina. Moskva, Mashgiz,1962.
314 p.

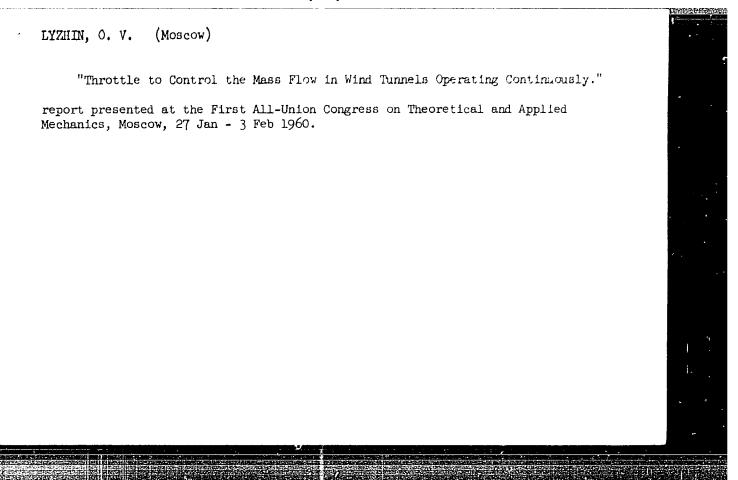
(Flowmeters)

(MIRA 16:3)

LYZHIN, 0.V. (Moscow)

"Throttle arrangements in compressible gas flow".

report presented at the 2nd All-Union Congress on Theoretical and Applied Mechanics, Moscow, 29 Jan - 5 Feb 64.



KONIKOV, A.S.; PLATONOVA-CHERNYSHEVA, L.V.; DEGTYAREVA, A.N.;
LYZHINA, G.M.

Study of physiologically active substances in animal and plant
tissuee. Report No.6. Uch. zap. Kras. gos. ped. inst. 15:195-200
(MIRA 14:12)

(Tissue extracts) (Respiration)

AUTHOR: Lyzina, L.A.

Sov/51-4-4-11/24

TITLE:

On the Method of Production of Solid Layers of Dyes by Precipitation from Solutions and on Corrections for Reflection in Measurement of Absorption of these Layers (O metodike polucheniya tverdykh sloyev krasiteley osazhdeniyem iz rastvorov i vnesenii popravok na otrazheniye pri izmerenii pogloshcheniya etikh sloyev)

PERIODICAL: Optika i Spektroskopiya, 1958, Vol IV, Nr 4, pp 501 - 505 (USSR).

ABSTRACT: The author describes a method of production of uniform layers of dyes with reproducible properties suitable for spectrophotometry. In this method, a base on which the layer is to be produced is attached to a vertical axis of an electric motor. A small amount of the solution of a dye is placed at the centre of rotation of the base and this solution spreads on the base due to the latter's motion. The solvent (such a ethyl alcohol, acetone, chloroform, ether, etc.) is rapidly evaporated and a uniform layer of the dye is produced on the rotating base. By variation of the rotational speed of the rotating base, the rate of drying may be varied from tenths to tens of seconds. Figure 1 gives an example of reproducibility of an absorption curve of three layers of rhodamine B deposited on

Sov/51-4-4-11/24 On the Method of Production of Solid Layers of Dyes by Precipitation from Solutions and on Corrections for Reflection in Measurement of Absorption of these Layers

quartz. The concentration of the solutions used was varied from 10^{-4} to 5 x 10^{-2} Mol/litre. The absorption obtained by spectrophotometric measurements of solid layers of dyes is affected by selective reflection at the air-dye interface. This reflection may reach 20-25% and it may distort the mea ared absorption curve. The author describes a method of correction for this reflection. Figure 3 slows the absorption for rhodamine B; Curve 1 slows the measured and Curve 2 the true absorption. Similar curves are given in Figure 4 for quincline blue. These two figures show that the absorption curve shape is not affected by reflection, but the measured values are about 8-10% higher than the true values. For rhodamine B, ratio of the long-wavelength absorption maximum to a similar maximum at short wavelengths is not affected by reflection at the layer surface. For quinoline blue the ratio of these Lexima is lowered from 0.38 to 0.84. The distortions in the absorption spectrum due to reflection at the dye layer surface increase with decrease of the layer thickness. An example of Card2/4

On the Method of Production of Solid Layers of Dyes by Precipitation from Solutions and on Corrections for Reflection in Measurement of Absorption of these Layers

this behaviour is shown in Figure 5. This figure shows absorption spectra of two layers of malachite green produced from alcohol solutions of different concentrations. The Absorption Curves 1 and 3 were obtained without taking reflection into account. These curves represent layers of different thicknesses and they differ considerably from one another. Curves 2 and 4 were obtained from Curves 1 and 3, respectively by correcting for reflection. In spite of this correction, Curves 2 and 4 still show some important differences. The method of correction for reflection described in this paper may be used also to determine the coefficients of reflection at the air-dye and dye-base interfaces and dependence of these coefficients on the

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On the Method of Production of Solid Layers of Dyes by Precipitation from Solutionsand on Corrections for Reflection in Measurement of Absorption of these Layers

> conditions of preparation of the dye layer. The method described cannot be used when interference effects are present.

There are 5 figures and 3 references, 2 of which are Soviet and 1 Soviet and German.

Gosudarstvenny, opticheskiy institut im. S.l. Yavilova (State Optical Institute imeni S.I. Vavilov) ASSOCIATION:

SUBMITTED: August 27, 1957

1. Dyes--Optical properties

Card 4/4

CIA-RDP86-00513R001031230003-8" APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001031230003-8 "APPROVED FOR RELEASE: 08/31/2001

.UTHOR:

Lyrina, L.A.

507/51-5-3-10/21

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FITLE:

On the Absorption Spectra of Solid Layers of Dyes, Produced by Deposition from Solution (O spektrakh pogloshcheniya tverdykh sloyev krasiteley, poluchennykh osazhdeniyem iz rastvorov)

PERIODICAL: Optika i Spektroskopiya, 1958, Vol 5, Nr 3, pp 286-289 (USSR)

LBS TRACT:

The author investigated dependence of the absorption by solid layers of dyes on the concentration of the original solution and solvent from which the layers were produced, the rate at which the layer was deposited, the temperature and nature of the substrate. To prepare these layers volatile solvents (such as ethyl alcohol, acetone, chloroform, dichloroethane) were used. The dye concentration in solution was from 0.05 to 0.0005 mole/litre. Layers with reproducible properties were prepared by deposition of a dye on a rapidly rotating substrate. Thickness of the layers was from 0.08 to 0.50 p.. Plane-parallel plates of quartz glass or crystals of NaCl. KC1, LiF, and CaF2 were used as substrates. The experiments showed that, depending on conditions of preparation, either specularly reflecting or diffusely reflecting ("velvet") layers could be obtained.

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APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001031230003-8" On the Absorption Spectra of Solid Layers of Dyes, Produced by Deposition from

Which type of layer was obtained depended on the ratio of the forces of mutual interaction of the dye molecules to the forces of adsorption of dye molecules on the substrate. Rhodamine B, Bengal rose, eozin. malachite green and crystal violet layers are usually obtained in the specilarly reflecting form. Auramine, erythrosine, patent blue, methylene blue and quincline blue layers could be both specularly and diffusely reflecting. Layers of quinoline blue were of the "velvet" (diffusely reflecting) type when prepared from alcohol and schetimes from anotone solutions on plates of glass, quartz, NaCl and KCl. If fluorite was used as the substrate specularly reflecting layers couli be obtained from acetone and alcohol solutions. If quinoline blue was dissolved in chloroform or dichloroethane the layers were always specularly reflecting. The spectral properties of the specularly reflecting and "velvet" layers were different. In Fig 1 curves 1, 2, 3 show the absorption spectra of the "velvet" layers of quincline blue. while curve 4 shows the absorption spectrum of a specularly reflecting layer. In "velvet" layers a new absorption maximum, at 710, 640, and The curves 1, 2, 3 respectively, was observed. The curve of the specularly reflecting layer has absorption maxima at 580 and 630 m p (Fig 1, curve 4). Curves 5 and 6 in Fig 1 represent the absorption

Cari L 5

Ch the Absorption Spectra of Solid Layers of Dyes, Produced by Deposition from

enestra of solutions of quinoline blue in alcohol and bensens respectively. With increase of the dimensions of quinoline blue particles in the deposited layer the absorption maximum, characteristic of the "relvet" typ. of layer, is displaced towards longer wavelengths. Similar changes clear in the ultraviolet region (e.g. bands with maxima at 390 and 435 mm in curves 3 and 4). Depending on the particle dimensions in the later the colour of layers varies from blue to green and yellow. Particles of quincline blue were found to be amorphous. Sumilar layers exhib. ting diffuse reflection were obtained for erythresine. For me hylene blue, patent blue and auramine the layers were found to consist of crystalline particles. Formation of these particles produced a band in the visible region, whose maximum lies at shorter wavele gths than the maxima of the fundamental absorption band. The indamental absorption band of specularly reflecting layers, which lies in the visible region is of the same general form as the fur. amental band in solutions. Fig 2 shows the absorption spectra of layers (corves 1, 2) and solutions (corves 3, 4, 5) of rhodamine B. Fig 3 shows the abscrption spectra of rhodamine B

Jara 3/5

On the Absorption Spectra of Solid Layord of Dyss. Produced by Deposition from Solution

layers on various substrates (1 - on quartz, 2 - on α C1, 3 - on Macl, 4 - on glass which interacted weakly with the dys melecules /. Figs 2 and 3 show that the fundamental absorption maximum is displaced towards lenger wavelengths in dye layers with specular reflection compared with the fundamental maximum of dye solutions. This displacement is due not only to the mitual interactions of the dye molecules on collidification, but also due to the effect of the substrate Deposition on a crystal substrate Haplaces the long-wavelength maximum more (curves 1, 2, 3 in Fig 3) than deposition on a glass substrate (curve 4. Fig 3). This indicates a stronger interaction between the dye molecules and the substrate, if the latter is a crystal. Similar displacement of the long-wavelength maximum in layers deposited on crystal substrates was observed for malachite green, ecain and Fengal rose. It displacements were observed in the ultraviolet region, It was found that the substrate temperature (from 20 to 80°C) during the problems of deposition did not affect groutly the properties of the specularly reflecting layers. The dalicus thank L.V. Savostiyaneve and A.T. vartanyan for their ad the There are I figures and

30./51-5-3-10/21 On the Alaciptica Spectra of Solid Layers of Dyes Produced by Degountion from

6 references, 4 of which are Soviet,

ACSOCIATION: Gesudara venny; optioneskiy institut im. S.I. Vavilova (St. o

Cytical Institute imeni S.I Vavilov,

SUBLITUE: 0. rober 14, 1957

1. Dyes--Spectrographic analysis 2 Dyes--Adsorption Jara i u

3. Dyes--Properties

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001031230003-8"

AU THOR:

Lyzina, L.A.

SOV/51-5-4 11/21

TITLE:

On the Spectral Properties of Solid Colloidal Layers of Dyes

(O spektral'nykh svoystvakh tverdykh kolloidnykh slovev krasiteley)

PERIODICAL: Optika i Spektroskopiya, 1958. Vol 5, Nr 4, pp 428-434 (USSR)

ABS TRACT:

Dye layers may be, depending on the conditions of decomposition. specularly reflecting or diffusely scattering ("welvet"), when viewed at an oblique angle. The absorption spectra of diffusely scattering layers of four dyes were measured. The dyes were: quinoline blue (quinoline type), erythrosine (xanthene type), methylene blue (thiazine type) and patent blue, made by Agfa (triphenylmethane type). The layers were prepared by evaporation from a solution in alcohol acetone, chloroform, etc., on a rapidly rotating quartz or other substrate (Ref 2). The absorption spectra were measured using a SF-4 spectrophotometer. No corrections were made for reflection so that all figures represent only optical densities. The absorption spectra of quinoline blue are shown in Fig 1; curve 1 represents a specularly reflecting (mirror) layer, curves 2-5 represent diffusely scattering layers. The latter layers consist of colloidal particles

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SOV/51-5-4-11/21

On the Spectral Properties of Solid Colloidal Layers of Dyes

visible under a microscope (Fig 2). The colloidal layers exhibit an esserption maximum which shifts towards longer wavelengths with increase of colloidal particle size. The properties of quinoline blue layers depend on the solvent used (in chloroform and dichloroethane mirror layers are always produced), the nature of the substrate (alcohol solutions on quartz produce "velvet" layers, but on fluorite mirror-type layers are obtained - see Figs 4, 5), the rate of evaporation and the subatrate temperature. If a "velvet" layer of quincline blue is lightly rubbed with cotton wool it acquires spectral characteristice of a mirror layer (Fig 6, curves la, 2a before, and curves 1b 2b after rubbing). A similar effect on rubbing is exhibited by erythresine layers (Fig 7, curve 1 - a mirror layer; curves 2, 3 - "velvet" layers, curve 4 - a "velvet" layer after rubbing). Properties of the erythristus layers were not affected by the nature of the substrate The collindal ("velvet") layers of both quinoline blue and erythrosine exhibited alwayabsorption maxima which were additional to those present in mirror layer Diffusely scattering layers of methylene blue and patent blue were found to consist of microcrystallites. The absorption spectra of the diffusely scattering layers of methylene blue (Fig 8, curves 2-4) and patent blue (Fig 8, curve 6) exhibit maxima at wavelengths shorter than the maxima

Jard 2/3

SOV/51-5-4-11/21

On the Spectral Properties of Solid Colloidal Layers of Dyes

of the mirror layers (Fig 1, curves 1 and 5 for methylene blue and patent blue respectively. The authors thank M.V. Savost'yanova and A.T. Vartanyan for their interest. There are 8 figures and

5 Soviet references.

ASSOCIATION: Gosudarstvennyy opticheskiy institut im. S.I. Vavilova (State

Optical Institute imeni S.I. Vavilov)

SUBMITTED: January 14, 1958

Card 3/3 1. Dyes--Spectra 2. Dyes--Properties 3. Spectrophotometers

-- Applications

CIA-RDP86-00513R001031230003-8" APPROVED FOR RELEASE: 08/31/2001

A THORS: Lyzina, L.A. and Vartanyan, A.T.

50V/51-6-2-8/45

TITLE:

Absorption Spectra of Dyo Layers in Vacuum (Spektry poglosheleniya sloyev krasitelay v vakuume)

PricioDICAL: Optica i Spektroskopiya, 1959, Vol 6, Nr 2, pp 172-180 (USSR,

AES TRACT:

The paper describes a technique for production of solid layers of dyes by sublimation and subsequent measurement of their absorption specific in vacuum. A special glass cell snown in Fig la, was used to prepare dye layers and to measure their spectra. A solid layer of dye was deposited from solution in a cup-like extension O (Fig 1b). fused quartz plate P was placed above the extension 0. The cell was held horizontally, evacuated and the dye layer in O was heated externally by means of a small electric furnace. This produced a sublimated layer The cell was then placed in a vertical position (Fig la or on P. 1b) and the plate P dropped to the position 1 in Fig 1a, where two quartz windows were provided. Dimensions of the cell were such that it fitted exactly in the holder of a SF-4 spectrophotometer, which was used for measurements. Measurements were carried out with the cell still evacuated and immediately after deposition of a dye layer. In sublimation of dyes the authors used Vartanyan's data (Ref 3). They

hrd 1/5

SOV/51-6-2-8/39

Absorption Spectra of Dye Layers in Vacuum

found that to avoid overheating the initial, deposited from solution, layer of a dye should, in general, be thin and uniform; only rhodamine B layers should be thick. It was not possible to obtain an undecomposed layer of malachite green using the cell shown in Fig 1. Best results were produced by rapid sublimation. To check that the sublimated layer is free from decomposition products the authors measured absorption in the ultraviolet region which was The absorption spectra of sublimated layers sensitive to impurities. of twelve dyes are shown in Figs 2-7 in the form of optical density curves (thickness of the sublimated layers was not measured and no cor ection was made for reflection). Figs 2-7 show also the spectra of dye layers produced by deposition from solution and spectra of solutions of the same dyes in water, alcohol, benzene etc. For some dyes spectra of sublimated layers measured in air are also given. The curves of Figs 2-7 give the spectra in the visible region; data on absorption in the ultraviolet are given in a table on p 178. Fig 2 shows the spectra of triphenylmethane dyes: (a) fuchsin and (b) crystal violet; curves 1-6 represent, respectively, sublimated layers measured under vacuum, dilute aqueous solutions, concentrated aqueous solutions, alcohol solutions, layers deposited from solution and benzene solutions.

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Absorption Spectra of Dye Layers in Vacuum

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Fig 3 shows the spectra of acridine dyes: (a) rhoduline orange and (b) trypaflavine; curves 1-6 represent, respectively, sublimated layers measured under vacuum, dilute aqueous solutions, concentrated aqueous solutions, alcohol solutions, sublimated layers measured in air, layers deposited from solution. Fig 4 shows the spectra of azine dyes: (a) phenosafranine and (b) safranine 0; curves 1-6 represent, respectively, sublimated layers measured under vacuum, dilute aqueous solutions, concentrated aqueous solutions, alcohol solutions, layers deposited from solutions and benzene solutions. Fig 5 shows the spectra of xanthane dyes: (a) pyronine and (b) rhodamines 6G and B; carves 1-5 represent, respectively, sublimated layers measured under vacuum, dilute aqueous solutions, concentrated aqueous solutions, alcohol solutions, layers deposited from solution. Fig 6 shows the spectra of auramine 0; curves 1-4 represent, respectively, sublimated layers me sured under vacuum, aqueous solutions, alcohol solutions, layers deposited from alcohol solution. Fig 7 shows the spectra of thiazine dyes: (a) thionine and (b) methylene blue; curves 1-5 represent, respectively. sublimated layers measured under vacuum, dilute aqueous solutions, concentrated aqueous solutions, alcohol solutions, sublimated layers measured in air. Fig 8 shows the dependence of the absorption of

Jard 3/5

Absorption Spectra of Dye Layers in Vacuum

50V/51-6-2-8/39

arramine 0 on the solution concentration: (a) alcohol solutions (b. dichloroethane solutions. In all the twelve dyes absorption by sublimated layers measured under vacuum differs considerably from absorption by layers deposited from alcohol solutions. This difference is the same in all the dyes considered: in the visible region the sublimated layers absorb more strongly at longer wavelengths than do The converse is true for short the layers deposited from solution. wavelengths in the visible range. The differences may be due to the fact that the layers deposited from solutions are more continuous than those prepared by sublimation. Moisture affects strongly the absorption spectra of sublimated layers; the absorption curves are different for sublimated layers measured in vacuo and those measured in air (e.g. Fig 3 curves 1 and 5, Fig 7 curves 1 and 5). The spectra of the sublimated layers measured in vacuo differ also from the spectra of solutions. This difference is smallest in auramine O spectra, where only some broadening occurs due to stronger interaction of the dye molecules in the solid state. In the case of the other dyes the differences tetween the spectra of sublimated layers measured in vacuo and the spectra of solutions may

Card 4/5

Absorption Spectra of Dye Layers in Vacuum

30V, 51-5-8-4/39

be due to adsorption forces between the sublimated layers and the quartz

plates on which they are deposited. There are 8 figures, 1 table

and o references, 5 of which are Soviet and 1 English.

SUBMITTED: March 4, 1958

Jard 5/5

24(7), 5(3)

SOV/51-6-4-12/29

AUTHORS:

Lyzina, L.A. and Vartanyan,

TITLE:

The Effect of Water Vapour on the Absorption Spectra of Sublimated Dye Layers (Vliyaniye parov vody na spektry pogloshcheniya vozognannych

sloyev krasiteley/

PERIODICAL: Optica i Spektroskopiya, 1959, Vol 6, Yr 4, pp 484-491 (USSR)

ABSTRACT:

In an earlier paper (Ref 1) the authors showed that the absorption spectra of sublimated dye layers measured in vacuo differ from the The differences are due to spectra of these layers exposed to air. structural changes due to atmospheric water vapour. These changes were the subject of an investigation reported in the present paper. The method of precaration of sublimated layers and the cell used for measurements of their absorption spectra measured under vacuum were to a measured in vacuo, water vapour of known vapour pressure was idmitted The spectra were then re-measured into the cell containing samples. after 20-30 mins from the moment of admission of water vapour. The following dyes were investigated: rhoduline orange (Fig la), trypaflavine (Fig 16), crystal violet (Fig 2a), fuchsin (Fig 26), phenosafranine (Fig 3a), safranine (Fig 36), thionine (Fig 4),

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APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001031230003-8"

30V/51-6-4-12/29

The Effect of Water Vapour on the Absorption Spectra of Sublimated Dye Layers

auramine (Fig 5), rhodamine 6G (Fig 6a) and rhodamine B (Fig 66). The results obtained are interpreted as follows. The dys layers prepared by sublimation in vacuo are originally amorphous. In the presence of water vapour the dyes aggregated to approximately the same degree as in concentrated aqueous solutions. In some dyes water vapour induced crystallization (auramine, methylene blue, thioning). In solid layers of dyes, depending on the external conditions (vacuum, water vapour), there may exist different types of absorbing centres, in the form of "free" molecules, molecules affected by the substrate, aggregated molecules and microcrystallites. The form of the absorption curves is determined by the proportions of these absorbing centres. There are 7 figures and 7 references, 5 of which are Soviet and 3 English

SUBMITTED: April 23, 1958

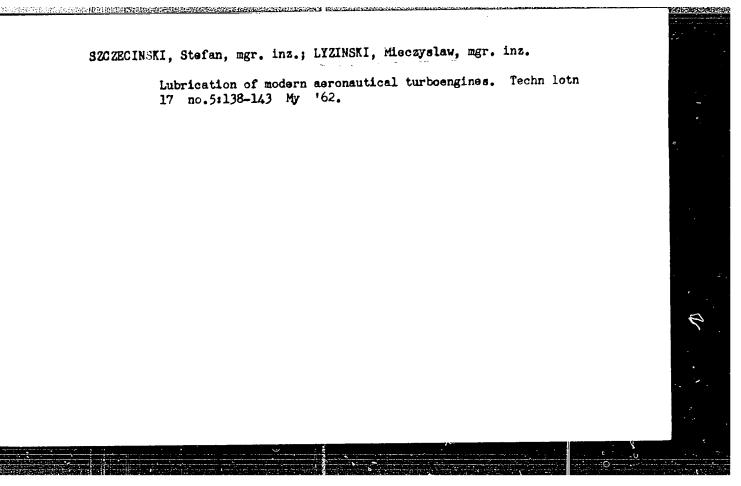
Card 2/2

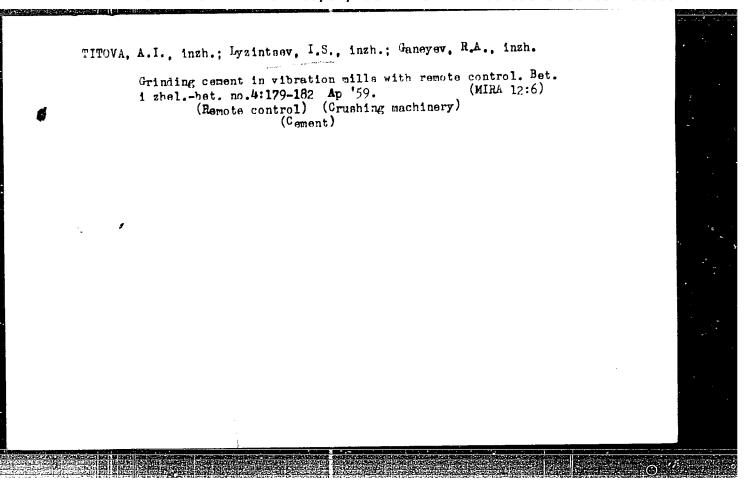
LYZINA, L. A. Cand Phys-Math Sci -- "Study of the state of dyes in solid solutions by the spectrophotometric method." Minsk, 1961 (State Belorussian Univ).

(KL, 4-61, 184)

-25-

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001031230003-8"





LYZIOV, A.A.

Traffic regulation on extended hauls. Zhel.dor.transp. 42 no.11:62-63 N '60. (MIRA 13:11)

l. Zamestitel' nachal'nika sluzhby dvizheniya Kuybyshevskoy dorogi. (Railroads-Traffic)

AGLINTSEV, K.K.; KODYUKOV, V.M.; LYZLOV, A.F.; SIVINTSEV, Yu.V.;
CHUGASOV, A.A., red.; MAZEL', Ye.I., tekhn. red.

[Applied dosimetry]Prikladnaia dozimetriia. Fod obshchei
red. K.K.Aglintseva. Moskva, Gosatomizdat, 1962. 246 p.
(MIRA 16:2)

(Radiation--Dosaga)

PHASE I BOOK EXPLOITATION

SOV/6376

Aglintsev, K. K., V. M. Kodyukov, A. F. Lyzlov, and Yu. V. Sivintsev.

Prikladnaya dozimetriya (Applied Dosimetry). Moscow, Gosatomizdat, 1962. 246 p. 7800 copies printed.

Ed. (Title page): K. K. Aglintsev, Professor; Ed.: A. A. Chugasov; Tech. Ed.: Ye. I. Mazel'.

PURPOSE: This book is intended for engineers and technicians working in the field of atomic energy. It can also be used by students specializing in ionizing-radiation dosimetry.

COVERAGE: The physical principles of dosimetry are described, and the organization of radiation control in laboratories and enterprises engaged in work with ionizing radiation is discussed. No personalities are mentioned. There are 30 Soviet references, 10 of which are translations.

Card 1/2

S/123/61/000/011/020/034 A004/A101

AUTHORS: Krishtal, M. A.; Fominykh, I. P.; Lyzlov, B. A.

TITLE: Properties, structure and machinability of malleable cast iron with

chromium and antimony for fittings

PERIODICAL: Referativnyy zhurnal, Mashinostroyeniye, no. 11, 1961, 3, abstract

11G18 ("Sb. tr. Tul'sk. mekhan. in-ta", 1960, no. 15, 20-26)

TEXT: An increase in the chromium content of the metal, when alloyed steel gets into the charge, causes a considerable prolongation of the annealing cycle and also tool breakage during the working of fittings as a result of insufficient annealing in the first stage. Investigations showed that a Cr-content of 0.15% is neutralized by the addition of 0.23% Sb to the cast iron. Cast iron containing 2.56% C, 1.5% Si, 0.15% Cr, 0.23% Sb, after heating to 960°C for 3 hours, holding of 15 hours, cooling down to 720°C for 2 hours and holding at this temperature for 10 hours, had the structure of pearlite malleable cast iron of the KY-54-5 (KCh-54-5) grade. Tests of the machinability showed that in the time interval between the sharpening of the taps 5-6 times more fittings from malleable cast iron alloyed with chromium and antimony (HB 170-200) could be

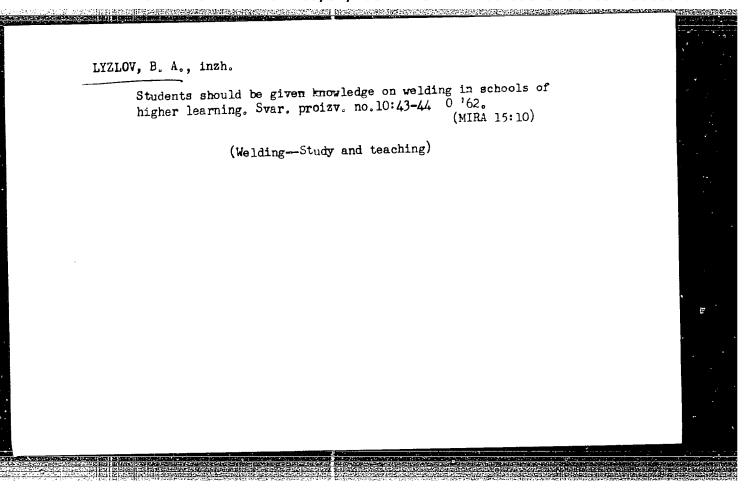
Card 1/2

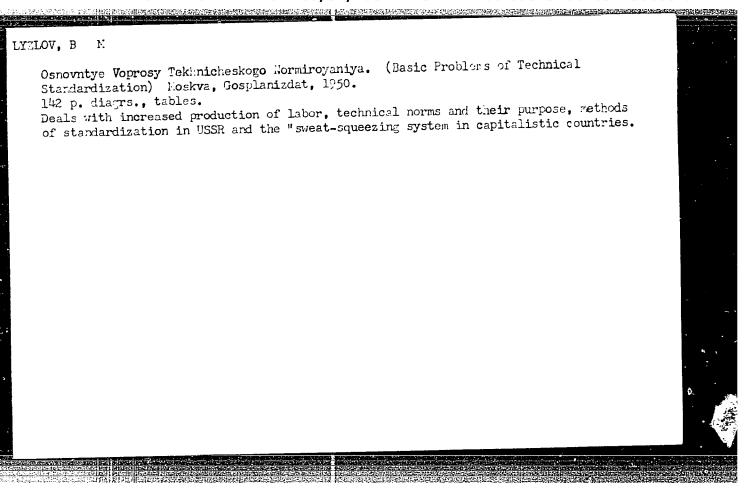
Properties, structure and machineability ...

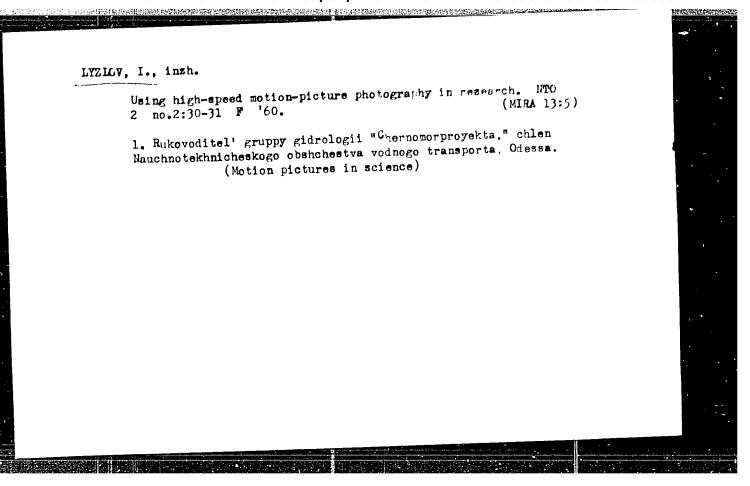
machined than those of ordinary non-alloyed cast iron.

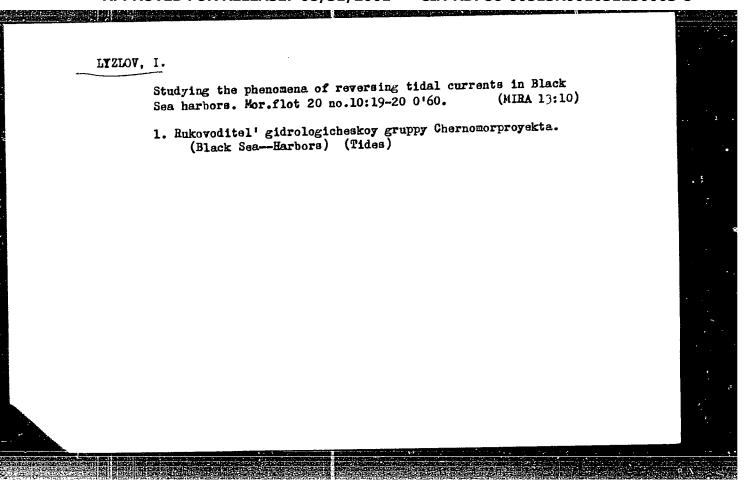
[Abstracter's note: Complete translation]

Card 2/2



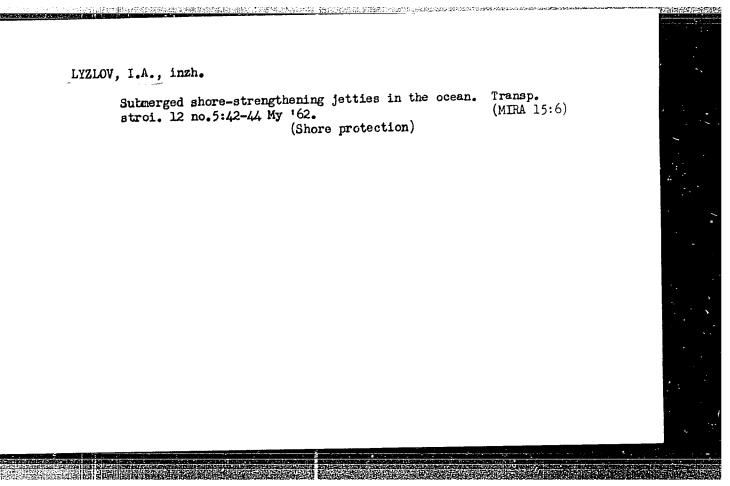


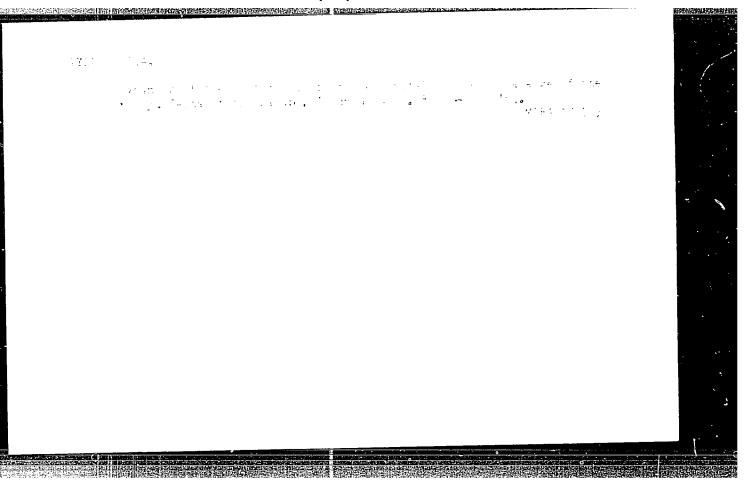




LYZLOV, I.A.	:	
Experimental investigation of various désign. Trudy Ok	of shore-protecting funderwater breakwaters kean.kom. 12:5-16 61. (MIRA 15:1)	3
1. Chernomorproyekt.	(Breakwaters)	
	•	

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001031230003-8"





- 1. YAGUP'YEV. G.; LYZLOV, S.
- 2. USSR (600)
- 4. Shipbuilding
- 7. Creative cooperation between scientific workers and factory management, Mor. flot, 12, No. 11, 1952.

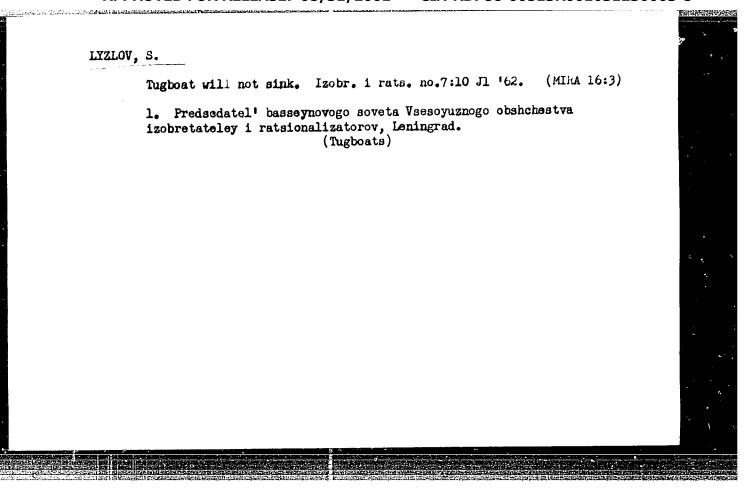
9. Monthly List of Russian Accessions, Library of Congress, February 1953, Unclassified.

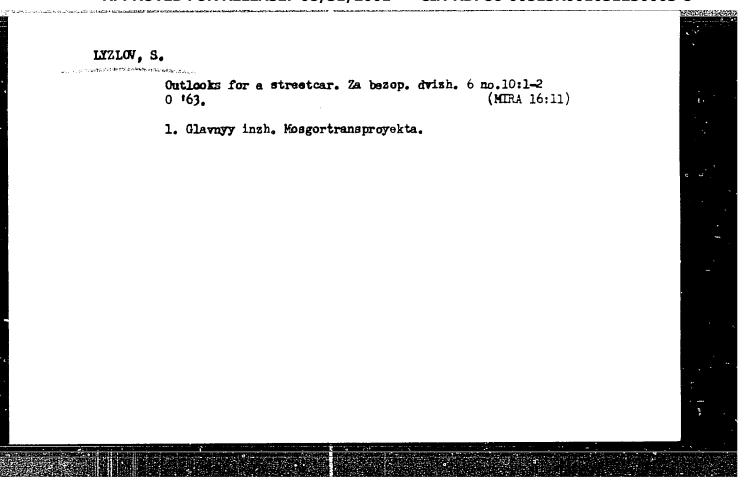
LYZLOV, S. A.

Lyzlov, S. A. "Improved construction of the Moscow tramway tracks,"

Gor. khoz-vo, Moskvy, 1942, No. 12, pp. 23-27

SO: U-3264, 10 April 53 (Letopis 'Zhurnal 'nykh Statey, No. 4, 1949).

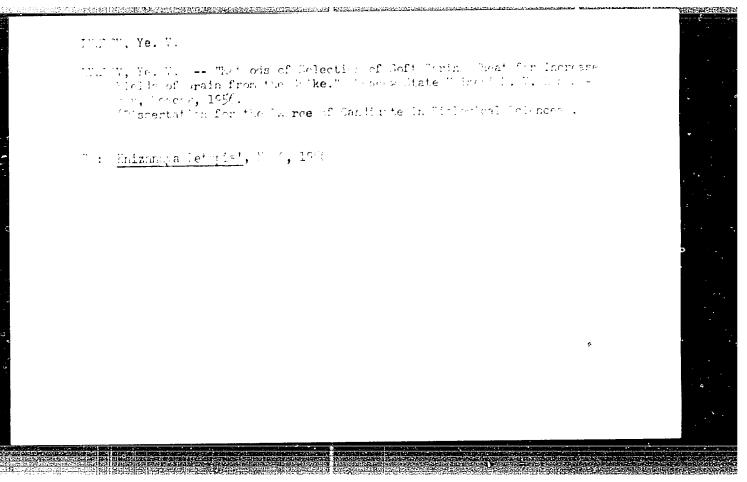


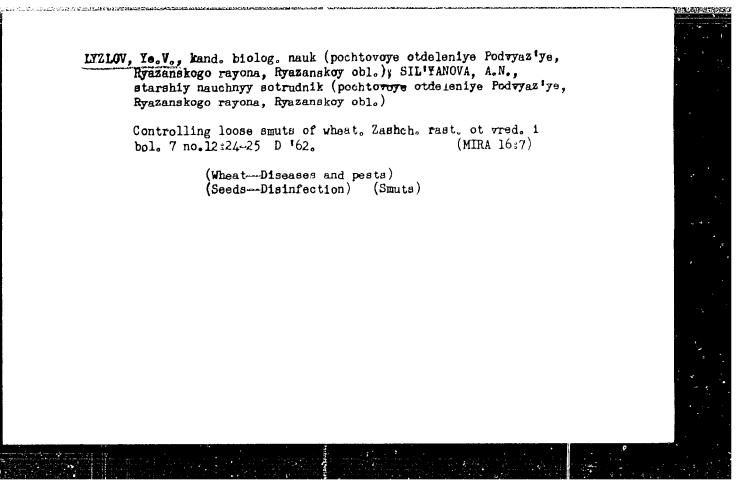


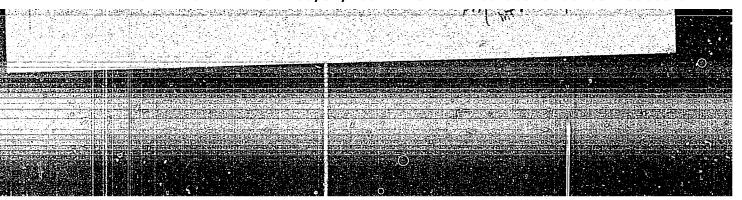
LYZLOV, Semen L'vovich; SAMOYLOVICH, T.A., red.; KLAPTSOVA, T.F., tekhn. red.

[New developments in invention and innovation in the merchant marine] Novoe v rabote po izobretatel'stvu i ratsionalizatsii na morskom flote. Moskva, Izd-vo "Morskoi transport," 1962. 49 p. (MTRA 15:9)

(Merchant marine-Technological innovations)







1 4218 V 41 V

AUTHORS: Lyzlov, Yu.V., Mechkovskaya, T.A., Samartsev, A.G.

76-- 2-18/27

TITLE:

The Effect of Gelatin on the Formation of Electrolytic Coppe:
Deposits (Vliyaniye zhelatiny na obrazovaniye elektrolitiche kikh

osadkov medi).

PERIODICAL:

Zhurnal Fizicheskoy Khimii, 1957, Vol. 31, Nr 12, pp.2720-2724 (USSR)

ABSTRACT:

The results of observation of the surface of a cathode during the precipitation of copper from a sulphate of electrolyte to which gelatin was added, are given here by registration of the cathode potential-change with respect to time. The results should contribute to the clarification of the still unclear process with the formation of brilliant galvanic deposits. The observation of the micro-cathode surface during the precipitation of copper from the acid copper bath with an addition of gelatin for imparting brightness was carried out by means of a microscope. The observations show the possibility of the existence of two various states of the cathode surface. These two states can be realized simultaneously under certain conditions. In this case, the surface of the cathode is divided into two parts: an active, and a passive range. They apparently are distinguished by the properties of the adsorption layers of the colloid covering

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APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001031230003-8"

The Effect of Gelatin on the Formation of Electrolytic Copper Deposits

76-12-18/27

them. The formation of a thick layer of adsorption, which is impermeable to the discharging ions, requires, due to the low diffusion speed and the not high concentration of the colloid substance in the solution, a certain time. If the current density is higher than the critical, then the quick renewal of the surface of the deposit prevents the formation of such a layer. The amount of critical current density required for maintaining the cathode in active state is determined by the nature of the colloid-substance, its concentration, and by the conditions under which the electrolysis is carried out. The formation of an active surface is only possible if the amount of the critical current density does not exceed the value of the limiting current for the given electrolyte. With a total current intensity, which does not suffice for maintaining the critical current density on the whole surface of the cathode, the ranges to which the access of colloids is facilitated, (e.g. due to convection currents) is passive. The passivity lasts as long as the current density in the ranges preserving the activity does not attain the critical value. A further passivity prevents the increasing polarization of concentration. The metal deposit on the passive surface is apparently

Card 2/4

The Effect of Gelatin on the Formation of Electrolytic Copper Deposits

75-12-18/27

a totality of a great number of processes independent from each other. The depositions of the metal on the passive surface take place in various points. The microscopic projections developing impart a coarse character to the surface. These rounded projections are apparently polycrystalline formations. The increase of the deposits on the active surface takes a quite different course. Here the whole surface participates in the electrolysis. The active surface remains smooth and brilliant independent of the thicknesses of the deposited metal layer. The deposits point to a lamellar structure. The layers proceed approximately parallel to the plane of the surface. All reasons indicate that the formation of the brilliant copper deposits is in immediate context with the rhythmic character of the cathode processes depending on the lamellar structure of the metal. The detailed picture of this phenomena must still be cleared up. There are 8 figures, and 6 references, 1 of which is Slavic.

Card 3/4

The Effect of Gelatin on the Formation of Electrolytic

Copper Deposits

SUBMITTED: Cotober 4, 1956

AVAILABLE: Library of Congress

Card 4/4

"APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001031230003-8

sov/81-59-10-35303

Translation from: Referativnyy zhurnal. Khimiya, 1959, Nr 10, p 276 (USSR)

Lyzlov, Yu.V. AUTHOR:

Methods for Speed-up Corrosion Tests of Materials and Froducts of the Opti-TITLE:

cal Industry Under Conditions Imitating a Tropical Climate

PERIODICAL: Sb. Kom-t no korrozii i zashchite metallov Vses, sov nauchno-tekhn p-v

1958, Nr 3, ניץ 3-41

The tests of samples of metals and protective coatings and also parts of ABSTRACT:

optical devices designed for work under conditions of tropical climate, 15 were carried out in a corrosion chamber manufactured from organic glass with a capacity of 0.2 m3. The following conditions were observed: the samples were kept for 50 min in an atmosphere with a relative numidity of 100% at 50°C, then dry air was blown through the chamber for 10 min (5 min with air heated to 40 - 45°C for drying the samples and 5 min with air of room temperature for cooling the samples)

1 hour, the number of cycles is 150 - 200

Cally by means of a programming mechanism. For testing finished devices

another chamber was employed, in which the products were kept for 8 hours Card 1/2

> APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001031230003-8"

SOV/81-59-35333

Methods for Speed-up Corrosion Tests of Materials and Products of the Optical Industry Under Conditions Imitating a Tropical Climate at 40°C and an air humidity of 100%, in the remaining time of the day the coamper was switched off and left with door open. The duration of the tests varies, depending on the conditions of operation of the devices, within the range of 15-50 days.

Ya. Marilla.

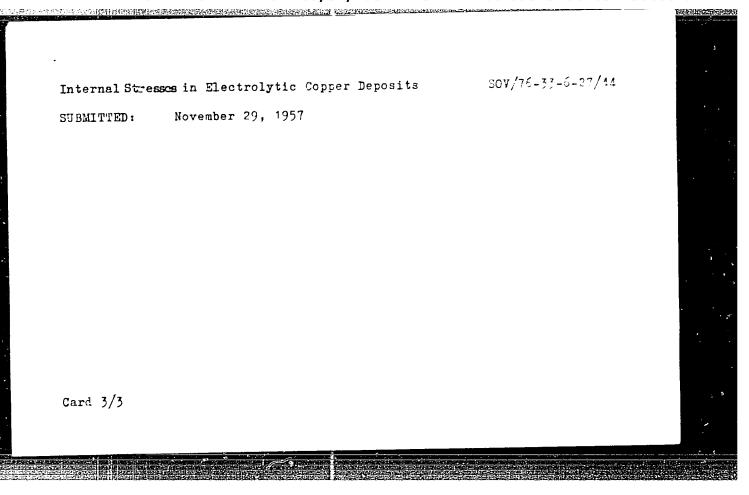
5 (4) 307 7 (2772 - 27 11 Lyzlov, Yu. V., Samartsev, A. G. AUTHORS: Internal Stressesin Electrolytic Copper Deposits TITLE: (Vnutrenniye napryazheniya v elektroliticheskikh ogadkakh medi) Zhurnal fizicheskoy khimii, 1959, Vol 33, Nr 6, PERIODICAL: pp 1345-1352 (USSR) As in the electrolytic copper precipitation from acidified ABSTRACT: copper sulphate solutions there are no secondary processes (such as a generation of hydrogen), this process is particularly favorable for the investigation of the influences of internal stress by different admixtures to the solution. Internal stresses (IS) were investigated in copper deposits (D) obtained from common copper sulphate electrolytes, and with admixtures of thiocarbamide (I) and gelatin (II). The (IS) were measured by a "contractometer" (Ref 8). Preliminary tests showed that the smallest quantities of impurity in the copper sulphate exert a strong influence on the (I3) in the copper deposit (Table). The electrolytic (D), obtained from electrolytes without admixtures, have a compressing stress (CS) which decreases with a rise in temperature and a reduction in current density. The structural change of (D) Card 1/3

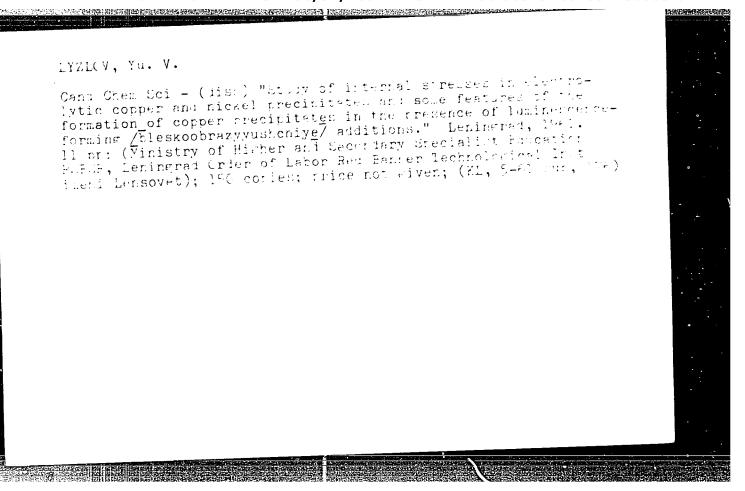
Internal Suresses in Electrolytic Copper Deposits

SOV/76-37-6-27/44

into a disperse grain causes a rise in (IS). Admixtures of (I) and (II) to the electrolyte effect an increase in (IS) at small quantities, a reduction of (CS), and a conversion to tensile stresses (TS) at high quantities of admixtures. The changes of (IS) by admixtures of (I) and (II) are due to spatial changes in the structure of (D), i.e. to the formation of intermediate layers which, by their increase in size, effect the (TS). As, during the eletrolysis, the area near the cathode becomes poorer in (I) and (II), an intermixture of the eletrolyte, an increase in temper ture and a reduction of the current density favor a reduction of (CS) and an increase in (TS) in the (D), as these factors facilitate the access of (I) or (II) to the carhode. The so-called "leveling effect" of various electrolytes [Refs 17-21) is explained by the fact that near such spcts where the diffusion is impeded (cracks joints indentation in the cathode surface) the solution also quickly becomes poorer in (I) and (II), whereby the current density rises and the metal deposition increases in these spots. There are 7 figures, 1 table, and 21 references, 8 of which are Soviet.

Card 2/3





DASOYAN, Martin Avetisovich; DANIEL'-BEK, V.S., kand.tekhn.nauk, retsenzent;

LYZLOV, Yu,V., red.; TOMASHEVSKIY, F.F., red.; ZHITNIKOVA, O.S.,

tekhn. red.

[Chemical sources of electric current; a manual] Khimicheskie istochniki toka; spravochnoe posobie. Moskva, Gos.energ.izd-vo, 1961.

349 p. (NIRA 14:12)

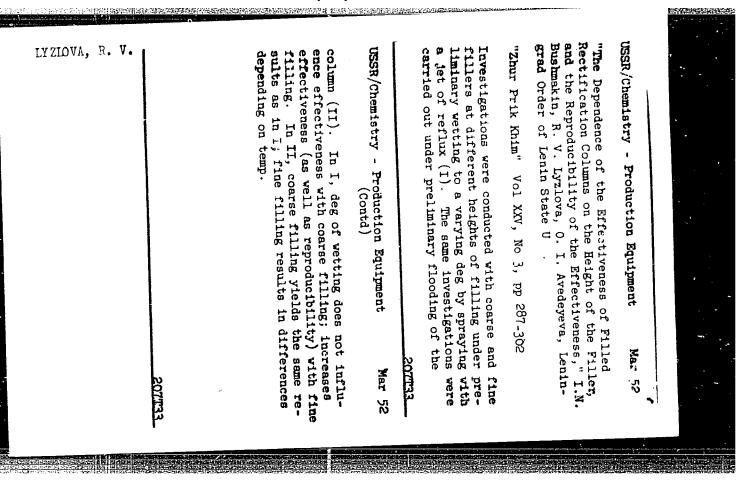
(Storage batteries)

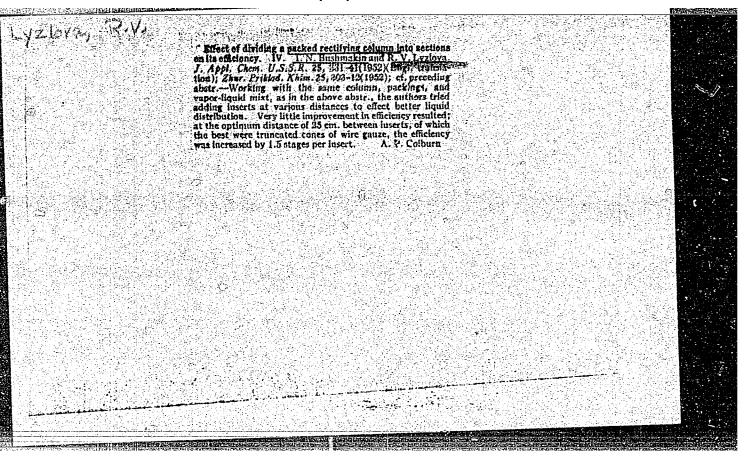
VAYNER, Ya.V.; DASOYAN, M.A.; YAMFOL'SKIY, A.M., kard. tekan.nauk, retsenzent; KAN, V.I., inzh., retsenzent; IZZLOV, Yu.V., kand. khim. nauk, red.; VARKOVETSKAYA, A.I., red.izd-va; FETERSON, M.M., tekhn. red.

[Technology of electrochemical coatings] Tekhnologiia elektrokhimicheskikh pokrytii. Moskva, Mashgiz, 1962. 468 p.

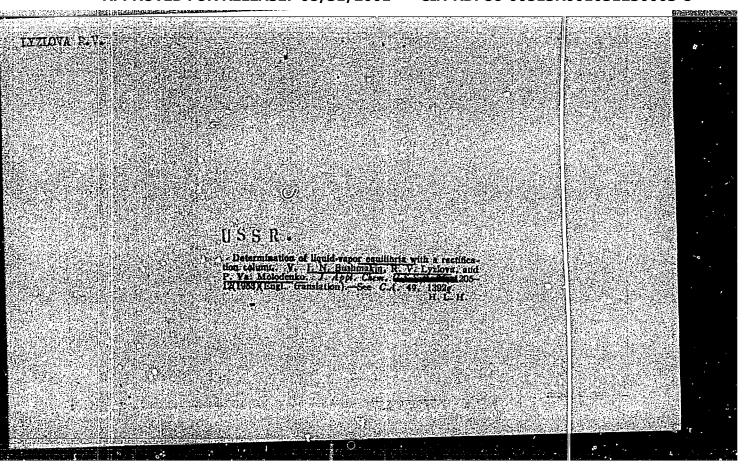
(Electroplating)

(Electroplating)

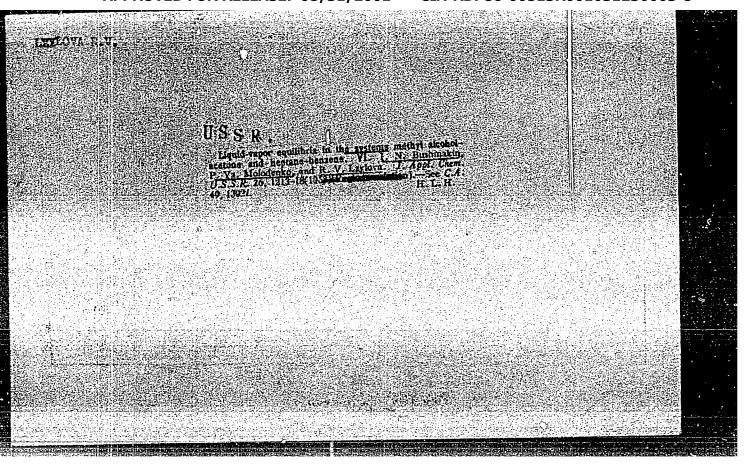


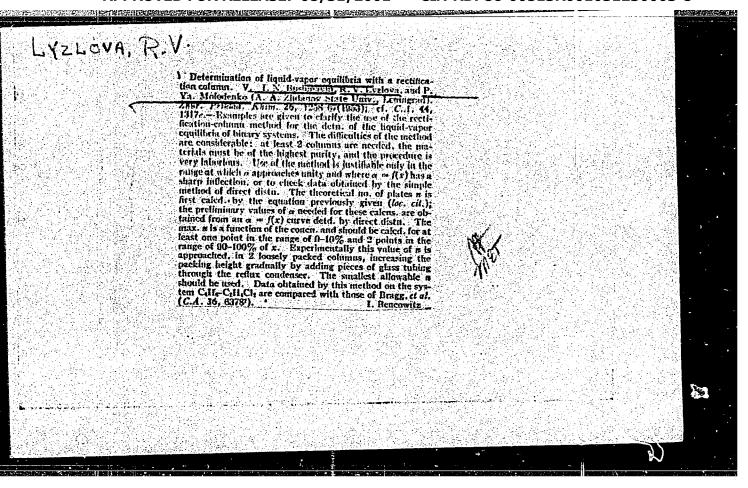


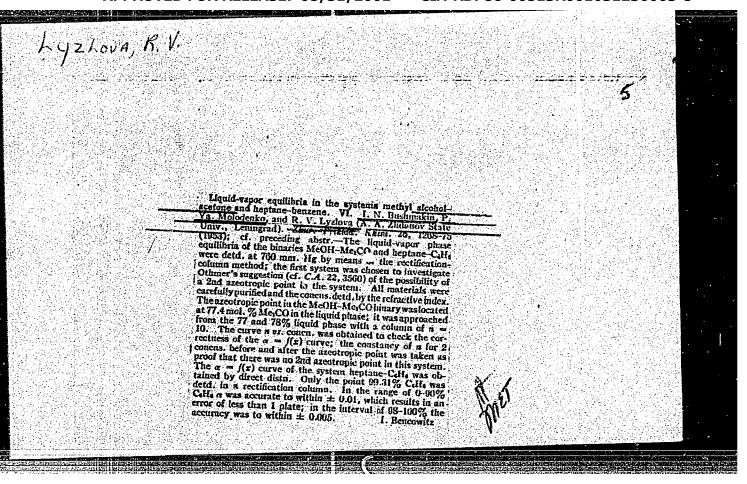
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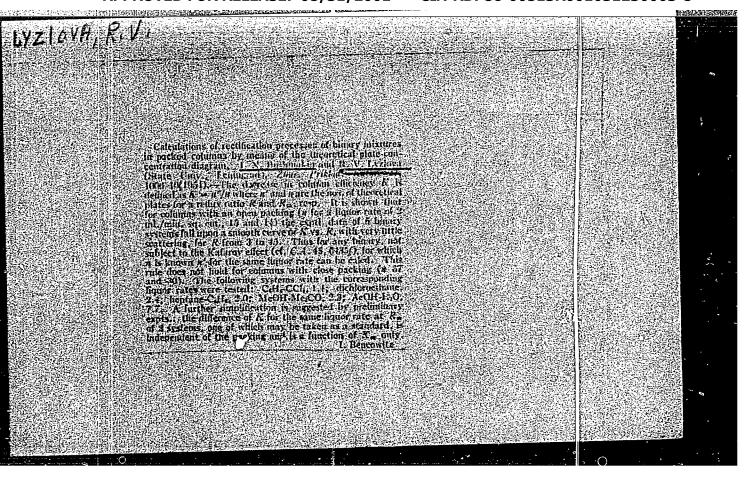


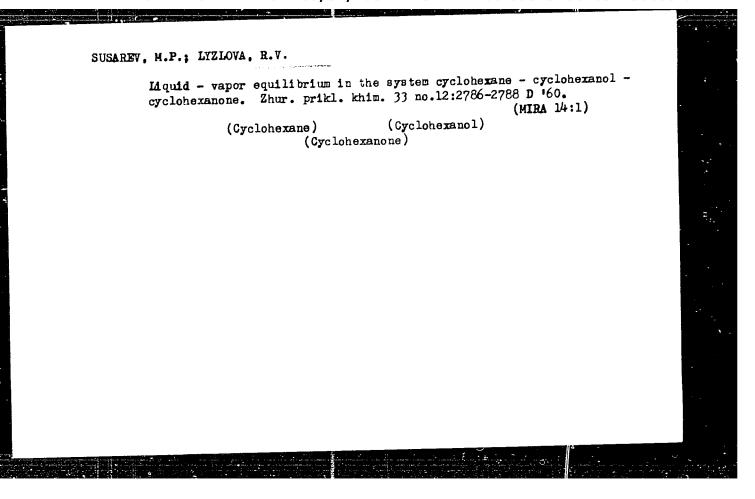
"APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001031230003-8











SUSAREV, M.P.; LYZLOYA, R.V.

Liquid - wapor equilibrium in the system benzene - cyclonexane - methylcyclopentane. Zhur. fiz. Phim. 36 no.3:437-442 Mr 103.

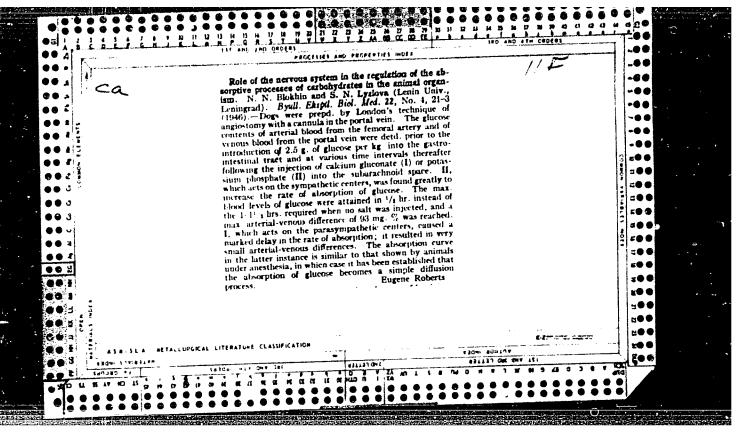
(MIRA 17:8)

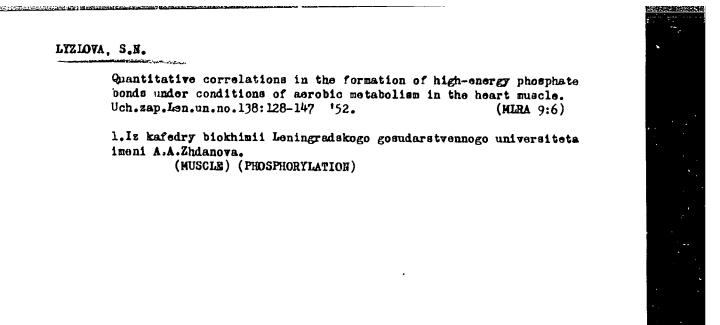
1. Leningradskiy universitet imedi Zhdanova.

MTRACHEVSKIY, A.G.: SMIRNOVA, N.A., IYZLOVA H.V.

Phase equilibria in the ternary systems isobutyraldehyde - isobutyl alcohol - valer and isovaleraldehyde - isobutyl alcohol - valer. Zhur.prikl.khim. 38 nc.621262-1267 Je '65. (MIRA 18:10)

1. Veningradskiy gosudarstvennyy universitet imen: A.A.Zhdanova.





VLADIMIROV, C.Te.; VLASOVA, V.G.; KOLOTILOVA, A.I.; LYZLOVA, S.N.;

PARTELETEVA, N.S.

Determining the free energy of the hydrolysis of adenosintriphosphoric acid according to the equilibrium constant of the hexokinase reaction [with summary in English]. Biokhimita 22 no.6:963-970 N-D '57.

(MIRA 11:2)

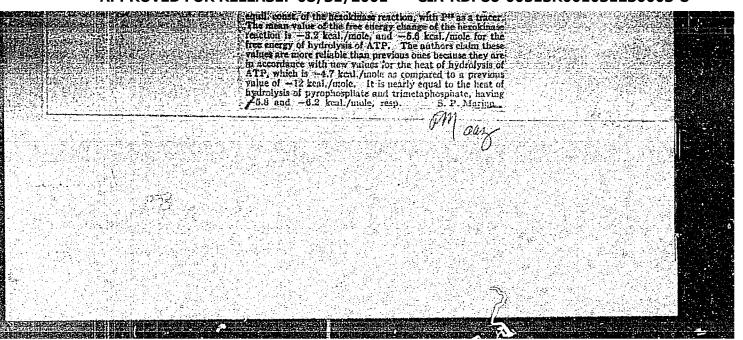
1. Kafedra biokhimit leningradskogo gosudarstvennogo universiteta im. A.A.Zhdanova.

(AIBNYLPYROPHOSPHATE,

free energy of hydrolysis, determ. according to equilibrium constant of hexokinase reaction (Bus))

(TRANSPHOSPHORYLASES.

hexokinase reaction equilibrium constant in determination of ATP free energy of hydrolysis (Bus))



USSR / Human and Animal Physiology. Metabolism. Carbohydrate Metabolism.

Abs Jour: Ref Zhur-Biol., No 22, 1958, 101680.

Author : Lyzlova, S. N.; Panteleyeva, N. S.

: Leningrad State University Inst

: The Peculiarities of Phosphorus-Carbohydrate Metab-Title

olism of the Skeletal Muscle Under Various Functional

Conditions.

Orig Pub: Uch. zap. LGU, 1957, No 222, 297-311.

Abstract: Experiments were conducted on the whole gastrocnemic muscle (M) of the frog, in which, through preliminary injection of insulin to the animal, the content of glycogen was lowered from 600-2000 to 200-900 mg/%. The 02 consumption of such a muscle is increased, compared to normal; the amount of creatine phosphate (I) and ATP did not change. Ad-

Card 1/3

APPROVED FOR RELEASE: 08/31/2001 CIA-RDP86-00513R001031230003-8"

USSR / Human and Animal Physiology. Metabolism. Carbo- T hydrate Metabolism.

Abs Jour: Ref Zhur-Biol., No 22, 1958, 101680.

Abstract: cific action (SA) of I in the introduction of p32 was 1-1/2-2 times higher than at rest; the amount and SA of ATP did not change. The contraction induced by chloral hydrate or quinine dia not influence the value of SA of I and ATP. -- M. S. Morozova.

Card 3/3

LYZLOVA, S.N.; PANTELYEVA, N.S.

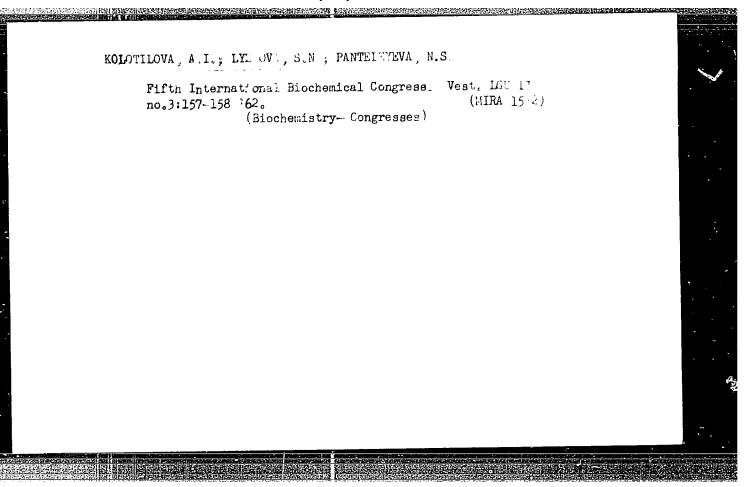
Meterrecation of components of the adenylic system during tetanic muscge contractions. Fiziol. zhur. SSSR 46 no. 9:1153-1159 S '60. (MIRA 13:10)

1. From the Chair of Piochemistry, State University, Leningrad. (ADENOSINE PHOSPHATES) (MUSCLE)

VIADIMIROV, G.Ye.[deceased]; LYZLOVA, S.N.; KOLOTHOVA, A.I., doktor biol. nauk, otv. red.; PETROVICHEVA, O.L., red.; VODOLAGINA, S.D., tekhn. red.

[Enzymology; basic problems concerning ferments] Enzimologiia; obshchie voprosy ucheniia o fermentakh. Leningrad, Izd-vo Leningr. univ., 1962. 255 p. (MIRA 15:5)

(Enzymes) (Digestive ferments)



LYZLOVA, S.N.; PANTELEYEVA, N.S.

Isolation of free wucleotides from muscle estract by adsorbing them on activated carbon. Vest. LGU 17 no.9:93-98 (MIRA 15:5)

(CHROMATOGRAPHIC ANALYSIS)

KOLOTILOVA, A.I.; KOROVKIN, B.F.; LYZLOVA, S.N.; VAGNER, V.K.; VASILENKO, E.T.; DZUTSOV, N.K.

Free ribonucleotides and the activity of some enzymes of the pentose phosphate cycle in the heart muscle in experimental myocardial infaraction. Biokhimiia 28 no.1:113-121 Ja-F '63.

(MTRA 16:4)

1. Chair of Biochemistry, State University, and Biochemical Laboratory, District Military Hospital, Leningrad.

(HEART--INFARCTION) (NUCLEOTIDES)

(PENTOSE PHOSPHATES)

